

WHAT IS CLAIMED IS:

1. A thermoplastic molding composition comprising at least one polymer component selected from

5

A) a graft rubber prepared by polymerization of

A1) 25 to 70 parts by wt. of one or more monomers, at least one of which is acrylonitrile, onto

10

A2) 30 to 75 parts by wt. of one or more rubber bases with a glass transition temperature of $\leq 0^{\circ}\text{C}$ with a c_{50} value of acrylonitrile of ≥ 30 wt.% (based on the total graft shell in each case) and with a chemical distribution ($c_{90}-c_{10}$ value) of the acrylonitrile of ≥ 5 wt.%, and

15

B) a rubber-free thermoplastic vinyl resin obtained by radical polymerization of a monomer combination of acrylonitrile and styrene and/or α -methylstyrene with a c_{50} value of acrylonitrile of ≥ 28 wt.% and a chemical distribution ($c_{90}-c_{10}$ value) of the acrylonitrile of ≥ 5 wt.%.

20

2. The thermoplastic molding composition according to Claim 1, comprising at least one polymer component selected from

25

A) a graft rubber prepared by polymerization of

A1) 35 to 65 parts by wt. of one or more monomers, at least one of which is acrylonitrile, onto

30

5 A2) 35 to 65 parts by wt. of one or more rubber bases with
a glass transition temperature of ≤ 0 °C with a c_{50}
value of acrylonitrile of 31 to 40 wt.% (based on the
total graft shell in each case) and with a chemical
distribution ($c_{90}-c_{10}$ value) of the acrylonitrile of 6 to 25
wt.%, and

10 B) a rubber-free thermoplastic vinyl resin, obtained by radical
polymerization of a monomer combination of acrylonitrile and
styrene and/or α -methylstyrene with a c_{50} value of
acrylonitrile of 30 to 40 wt.% and with a chemical distribution
($c_{90}-c_{10}$ value) of the acrylonitrile of 6 to 25 wt.%.

15 3. The thermoplastic molding composition according to Claim 1,
containing 10 to 65 wt.% of a graft rubber A) and 90 to 35 wt.% of at least
one rubber-free vinyl resin component B).

20 4. The molding composition according to Claim 1, wherein A1) is a
mixture of styrene and acrylonitrile.

25 5. The molding composition according to Claim 3, wherein A2) is at
least one member selected from the group consisting of polybutadiene,
butadiene/styrene copolymer rubber and butadiene/ acrylonitrile
copolymer rubber.

30 6. The molding composition according to Claim 1, wherein B) is a
copolymer of styrene and acrylonitrile.

7. The composition of Claim 1 wherein A1) is 35 to 65 parts by wt. of
one or more monomers, at least one of which is acrylonitrile and wherein
A2) is 35 to 65 parts by wt. of one or more rubber bases with a glass

transition temperature of 0 °C with a c_{50} value of acrylonitrile of 31 to 40 wt.% (based on the total graft shell in each case) and with a chemical distribution ($c_{90}-c_{10}$ value) of the acrylonitrile of 6 to 25 wt.%.

- 5 8. The composition of Claim 1 wherein B) has a c_{50} value of acrylonitrile of 30 to 40 wt.% and a chemical distribution ($c_{90}-c_{10}$ value) of the acrylonitrile of 6 to 25 wt.%.
- 10 9. The composition of Claim 1 comprising 10 to 65 wt.% of said A and 90 to 35 wt.% of said B.
10. A method of using the composition of Claim 1 in molding articles comprising thermoforming parts from extruded sheets.